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**ORGANISATION EUROPÉENNE POUR LA RECHERCHE NUCLÉAIRE**  
**CERN** EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

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COUNCIL

Hundred-and-eighty-third Session  
Geneva – 16 December 2016

OPEN SESSION

MINUTES

As the Draft Minutes (CERN/3301/Draft, dated 31 March 2017) were approved without amendment at the Hundred-and-eighty-fifth Session of the Council on 16 June 2017, the attached document can be regarded as the final version.

CERN/3301/Draft  
Original: English  
31 March 2017

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DRAFT MINUTES

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LIST OF PARTICIPANTS  
OPEN SESSION - 16 December 2016

<u>President:</u>	Prof. Sijbrand de Jong	Netherlands
<u>Participants:</u>	Prof. Jochen Schieck	Austria
	Prof. Walter Van Doninck	Belgium
	Prof. Dimitar Tonev	Bulgaria
	Prof. Rupert Leitner Mr Ondřej Novák	Czech Republic
	Mr René Michelsen	Denmark
	Prof. Paula Eerola Dr Pentti Pulkkinen	Finland
	Prof. Ursula Bassler	France
	Prof. Siegfried Bethke Dr Thomas Roth Dr Beatrix Vierkorn-Rudolph	Germany
	Prof. Konstantinos Fountas	Greece
	Ms Barbara Vizkelety	Hungary
	Prof. Eliezer Rabinovici	Israel
	Prof. Umberto Dosselli	Italy
	Prof. Eric Laenen Dr Joseph T.M. Rokx	Netherlands
	Dr Bjørn Jacobsen Prof. Eivind Osnes	Norway
	Mr Dariusz Drewniak Prof. Jan Królikowski Mr Wojciech Piatkowski	Poland
	Prof. Gaspar Barreira Prof. Paulo A. Pardal	Portugal
	Dr Eng. Florin Buzatu	Romania

Prof. Branislav Sitár	Slovakia
Mr Fernando Ballesterro Prof. Mario Martinez	Spain
Prof. Barbro Åsman Dr Mats Johnsson	Sweden
Mr Jacques Ducrest Mr Patrick Pardo Mr Xavier Reymond Prof. Olivier Schneider	Switzerland
Dr Brian Bowsher Mr Jordan Nash	United-Kingdom

Associate Member State in the Pre-stage to Membership:

Ms Michaelia Avani Prof. Panos Razis	Cyprus
Prof. Peter Adžić	Serbia

Associate Member States:

Mr Syed Aif Raza	Pakistan
Mr Zafer Alper	Turkey
Prof. Borys Grinyov	Ukraine

OBSERVERS:

Dr Antonio Di Giulio Dr Octavi Quintana-Trias	Representatives of the EC
Ms Rachita Bhandari	Representative of India
Dr Nicolai Russakovic	Representative of JINR
Mr Ryoei Chijiiwa Prof. Kazunori Hanagaki	Representatives of Japan
Mr Vladimir Malinkin	Representative of the Russian Federation
Dr Denise Caldwell Dr Saul Gonzalez Dr Andy Lankford Dr Abid Patwa	Representatives of the USA
Mr Abdulaziz Almuzaini Mr David Fernandez Puyana	Representatives of UNESCO

ALSO PRESENT:

Prof. Halina Abramowicz Ms Charlotte Jamieson Prof. Tatsuya Nakada	Chair of ECFA Chair of the Finance Committee Chair of the Scientific Policy Committee
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CERN OFFICIALS:

Dr Fabiola Gianotti Dr Frédérick Bordry Prof. Eckhard Elsen Dr Martin Steinacher Ms Charlotte Warakaulle	Director-General Director for Accelerators & Technology Director for Research & Computing Director for Finance & Human Resources Director for International Relations
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and

Heads of Departments

Representatives Staff Association

CERN SERVICES:

Dr Eva-Maria Gröniger-Voss	Legal Counsel
Ms Lisa Morris Mr John Pym	Minute-Writers
Ms Brigitte Van der Stichelen Ms Vedrana Zorica	Council Secretariat





The meeting resumed in Open Session at 9.00 a.m. on Friday 16 December 2016.

The PRESIDENT welcomed the observers Dr A. Di Giulio and Ms P. Postigo representing the European Commission, Ms R. Bhandari representing India, Dr N. Russakovic representing the Joint Institute for Nuclear Research, Mr R. Chijiwa and Professor K. Hanagaki representing Japan, Mr V. Malinkin and Professor A. Skrinsky representing the Russian Federation, Dr A. Patwa, Dr S. Gonzalez and Dr D. Caldwell representing the United States of America and Mr A. Almuzaini representing UNESCO. Apologies had been received from Ms I. Bokova and Ms F. Schlegel (UNESCO) and from Dr J. Siegrist (USA).

1. APPROVAL OF THE DRAFT MINUTES OF THE 181ST OPEN SESSION ON 17 JUNE 2016

(Item 1 of the Agenda) (CERN/3260/Draft)

At the request of the representatives of Japan, it was agreed to correct the title of Mr Watanabe, on page 12 of the draft minutes.

The Minutes of the 181st Open Session of Council (CERN/3260/Draft), as amended, were approved.

2. REPORT ON THE DECISIONS TAKEN AT RESTRICTED AND CLOSED SESSIONS

(Item 2 of the Agenda) (Oral)

The PRESIDENT presented his report<sup>1</sup> on the decisions taken by the Council at its September and December 2016 Restricted and Closed Sessions.

Professor ÅSMAN said that she particularly welcomed the fact that two of the three new members of the Scientific Policy Committee, appointed by the Council the previous day, were women.

The Council took note of the report by the President of Council.

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<sup>1</sup> Slides available at <http://indico.cern.ch/event/590400/>.

### 3. REPORT BY THE CHAIR OF THE FINANCE COMMITTEE

(Item 3 of the Agenda) (Oral)

Ms JAMIESON reported<sup>2</sup> on the issues examined at the Finance Committee's meeting on 14 December 2016, noting in particular that:

- 98% of Member States' contributions had been received to date compared with 93% at the same point in 2015;
- the cash position was such that no short-term loans would be required to cover the Organization's expenses until the first instalments of the 2017 contributions were received;
- the Management was making every effort to bring down the cumulative budget deficit as the Organization moved into the construction phase of the LIU and HL-LHC projects;
- the second Cost and Schedule review of those projects had given them a clean bill of health from the financial and scheduling perspectives and progress would be closely monitored and regularly reported to the Committee in the coming years;
- the Committee had broadly welcomed a presentation by the Management of its strategy for recruiting some 80 additional staff on limited-duration contracts, without any increase in the peak cumulative budget deficit, to cover essential requirements in a number of key technical fields;
- the recent turbulent conditions on the world's financial markets had impacted the monthly returns and year-to-date performance of the Pension Fund's assets but the cumulative returns since 2011 still exceeded the *pro rata* objective by 9.28% points; the Fund's risk consultant had confirmed that the long term objective of 3% remained a feasible target;
- reports had been received from the ILO Forum Chair and the Head of the Purchasing Service on the ongoing review of CERN's procurement rules and procedures with a view to a full discussion by the Committee in March 2017;
- 26 contract adjudications, for a total value of some 104 MCHF, had been unanimously approved.

On the occasion of her last Council meeting as the Finance Committee Chair, she wished to extend her sincere thanks to the Director-General and all the Management team, the President of the Council and the Chair of the Scientific Policy Committee for their great support throughout her term of office, as well as to all the ancillary support teams for their

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<sup>2</sup> The full summary of conclusions of the Finance Committee's 358th meeting is available at: <http://indico.cern.ch/event/590400/>.

work behind the scenes. Finally, she wished the incoming Finance Committee Chair, Mr O. Malmberg of Finland, every success in that capacity.

The Council took note of the oral report by Ms Jamieson.

#### 4. REPORT BY THE CHAIR OF THE SCIENTIFIC POLICY COMMITTEE

(Item 4 of the Agenda) (Oral)

Professor NAKADA presented<sup>3</sup> an overview of the matters discussed at the September, November and December 2016 meetings of the Scientific Policy Committee (SPC), noting in particular that:

- the highlights of the September meeting, traditionally attended by the former members of the SPC, had included a report on the 38<sup>th</sup> International Conference on High Energy Physics (ICHEP) in Chicago, from 3 to 10 August 2016, a report on the "Physics Beyond Colliders" Study Group kick-off meeting at CERN, from 6 to 7 September 2016, and the SPC report, commissioned by the Council, concerning R&D activities for a future high-energy frontier machine;
- the November meeting had been exclusively dedicated to the election of the new Chair and three new members of the Committee;
- at its December meeting, the Committee had heard reports on the 2<sup>nd</sup> LIU and HL-LHC cost and schedule review, the activities of the SPSC, the AWAKE experiment, and the Hyper-Kamiokande experiment.

On the occasion of his last Council meeting as the Scientific Policy Committee Chair, he wished to extend his thanks to the outgoing Committee members, Professors L. Rivkin, N. Roe and T. Wyatt, as well as to the Director-General, the Management team and everybody at CERN who enabled the Committee to function optimally.

Professor RABINOVICI said that, on behalf of the scientific delegates who attended the meetings of the SPC, he wished to express his appreciation to Professor Nakada and all the members of the Committee for the careful attention and consideration they had given to the Council's questions.

The Council took note of the oral report by Professor Nakada.

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<sup>3</sup> The full summary of conclusions of the Scientific Policy Committee's 301st meeting is available at : <http://indico.cern.ch/event/590400/>.

5. REPORT BY THE CHAIR OF ECFA

(Item 5 of the Agenda) (Oral)

Professor ABRAMOWICZ presented<sup>4</sup> her report on the activities of Plenary and Restricted ECFA during 2016, describing in particular Plenary ECFA's visit to the INFN's Gran Sasso laboratory and the reports it had received on the physics programmes at Gran Sasso, Frascati, DESY and CERN, the latest developments in neutrino physics, high-field magnets for future hadron colliders, physics and computing at the HL-LHC, International Linear Collider machine, detector and organisational developments, the ECFA detector R&D panel and ApPEC matters.

The Council took note of the oral report by Professor Abramowicz.

6. REPORT ON THE WORK PLAN ON THE IMPLEMENTATION OF THE MOU BETWEEN THE EUROPEAN COMMISSION AND CERN FOR THE PERIOD 2017-2018

(Item 6 of the Agenda) (CERN/3291)

a) CERN participation in H2020

Dr STAVREV, Head of the CERN EU Office, introduced document CERN/3291 and further presented<sup>5</sup> the EU Horizon 2020 projects in which CERN was participating and the perspectives for the period 2017-2020.

Responding to a remark by Professor RABINOVICI about the success rates for applications to certain H2020 programmes being as low as 2%, Mr DI GIULIO underlined that the figure quoted was the result of an objective evaluation of applications to highly competitive EU programmes.

The Council took note of the information set out in document CERN/3291 and of the presentation by the Head of CERN's EU Office, Dr Stavrev.

7. APPEC ROADMAP 2017

(Item 7 of the Agenda) (Oral)

Professor LINDE, Chair of the Astroparticle Physics European Coordination (ApPEC), presented<sup>6</sup> the activities of ApPEC and its recently approved roadmap for the years 2017-2022.

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<sup>4</sup> Slides available at <http://indico.cern.ch/event/590400/>.

<sup>5</sup> Slides available at <http://indico.cern.ch/event/590400/>.

<sup>6</sup> Slides available at <http://indico.cern.ch/event/590400/>.

Dr VIERKORN-RUDOLPH, commenting on slide No.30, pointed out that the only countries so far to have committed substantial seed funding to the Cherenkov Telescope Array (CTA) experiment, in the framework of the corresponding Memorandum of Understanding, were Switzerland, the Czech Republic and Germany, the latter having pledged some 77 M€.

Professor LINDE, apologising for the ambiguity in the slide in question, said that his aim had been to emphasise that the substantial amounts pledged by Switzerland, the Czech Republic and Germany came from astroparticle physics budgets whereas the other pledges were from sources outside Europe, e.g. from Japan, or from non-astroparticle physics sources.

In reply to a question from Dr RUSSAKOVIC of the JINR, Professor LINDE confirmed that the Gigaton Volume Detector (Baikal-GVD) was very much part of the ApPEC roadmap and was mentioned at various places in the strategy statements.

Professor DOSSELLI, noting that CERN was mentioned in the last slide as being the possible host laboratory for certain astroparticle physics activities in the future, said that while it was true that CERN offered a number of advantages from that perspective, it was important for astroparticle physics to maintain a healthy diversification of sites in order not to put all its eggs into one basket.

Professor ELSÉN said that the proposal to install the Darkside-1ton prototype facility as a recognised experiment at CERN would be discussed in the appropriate fora in January 2017 and its approval was certainly not a foregone conclusion.

The DIRECTOR-GENERAL said that she was pleased to inform the Council that the LIGO/VIRGO collaboration had requested CERN to host their collaboration meeting at the end of summer 2017.

The Council took note of the presentation by Professor Linde and of the subsequent points raised during the discussion.

## 8. CONFIRMATION OF ACCESS STATUS OF DOCUMENTS OF THE SESSION

(Item 8 of the Agenda)

The Council unanimously decided to confirm the access status of the documents for the present Open Session, as shown on the Agenda.

## 9. OTHER BUSINESS

(Item 9 of the Agenda)

### - Visit to the ALICE, ATLAS and CMS experiments on Wednesday 15 March

The PRESIDENT announced that an underground visit to the ALICE, ATLAS and CMS experiments would be organised for delegations during the March 2017 Council week, at 3.30 p.m. on Wednesday 15 March, straight after the end of the Finance Committee meeting. All interested participants were kindly asked to register with the Council Secretariat by 8 March at the latest.

### - Departure of three Council members

The PRESIDENT bade farewell and thanked three outgoing Council members, Professor B. Åsman of Sweden, Professor W. Van Doninck of Belgium and Mr F. Ballestero of Spain, for the important roles they had played within the Council throughout their membership.

### - End of the terms of office of the Chairs of the Scientific Policy Committee and the Finance Committee

The PRESIDENT further expressed appreciation, on the Council's behalf, to the outgoing Chairs of the Finance Committee and the Scientific Policy Committee, Ms C. Jamieson and Professor T. Nakada respectively, for their great services and strong leadership of the Council's two main advisory bodies over the past three years. Special thanks also went to Ms Jamieson for her leadership of the Standing Advisory Committee on Audits, SACA, a function that fell automatically to the Finance Committee Chair and that she had discharged with great expertise and professionalism.

The meeting was adjourned at 10.50 a.m. and resumed at 11.20 a.m. in the Main Auditorium.

## 10. TALKS BY YOUNG SCIENTISTS<sup>7</sup>

(Item 10 of the Agenda)

### - Accelerator performance and plans

The Council took note of the presentation by G. Iadarola.

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<sup>7</sup> All the presentations are available at <http://indico.cern.ch/event/590400/>.

- ALICE

The Council took note of the presentation by C. Loizides.

- ATLAS + LHCf

The Council took note of the presentation by F. Meloni.

- CMS + TOTEM

The Council took note of the presentation by Z. Demiragli.

- LHCb + MoEDAL

The Council took note of the presentation by Y. Li.

The meeting rose at 1.20 p.m.

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